

K063628

Section 2 510(k) Summary of Safety and Effectiveness

Date: December 19, 2006
Submitter: GE Healthcare Integrated IT Solutions
540 W Northwest Highway
Barrington, IL 60010
Contact Person: Karen M. Lunde
Sr. Regulatory Affairs Leader
GE Healthcare Integrated IT Solutions
Phone: (847) 277-6092
Fax: (414) 755-0655
Device: Trade Name: Centricity Radiology RA600 / Centricity Cardiology CA1000 /
Centricity Digital Hardcopy
Common/Usual Name: Picture Archiving and Communications Systems and Workstation
Classification Names: 21 CFR 892.2050 System, Image Processing, Radiological
Predicate Device: K042525 Centricity Radiology RA600 / Centricity Cardiology CA1000 /
Centricity Digital Hardcopy Workstation
K023178 Innova 4100 (Specific features)
K023100 Accusketch Cardiac Quantitative System W/ Advanced
Analysis Components (Specific features)
Device Description: Centricity Radiology RA600 / Centricity Cardiology CA1000 /
Centricity Digital Hardcopy is a PC-based DICOM workstation platform
which provides scalable image and data management solutions for
medical imaging. This software-based product provides capabilities
for the acceptance, transmission, printing, display, storage, editing
and digital processing of medical images and associated data.

RA600/CA1000 / Digital Hardcopy may be combined with a PACS
network or connected directly to a modality through the use of DICOM
networking. The RA600/CA1000 / Digital Hardcopy software
application may be sold as a standalone product for use with 'off the
shelf' PC hardware that meets minimum specifications or as a turnkey
solution integrated with hardware components to be configured to
meet the users specific needs.

RA600 / CA1000 / Digital Hardcopy can also provide the hardware and
OS platform for a user to operate 3rd party software and/or other GE
software applications such as RIS, voice recognition, or advanced
imaging analysis, and view any data presented through those
applications.

RA600 / CA1000 can act as an image repository for the Centricity Web
Viewer application.

Targeted users of this system are trained professionals, including
radiologists, cardiologists, physicians, technologists and nurses.

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Intended Use: RA600/CA1000/Digital Hardcopy is intended for viewing and diagnostic interpretation of images acquired from CT, MR, CR, DR, US, XA and other DICOM-compliant medical imaging systems when installed on suitable commercial-standard PC hardware. RA600 / CA1000 is intended for use as a primary diagnostic and analysis workstation in Radiology/ Cardiology or other departments. It is also intended for use as a clinical review workstation throughout the healthcare facility and may be part of a larger PACS configuration.

Digital Hardcopy is intended for use primarily as a workstation for the high volume burning of CDs or DVDs containing DICOM medical images and associated diagnostic report or analysis information. CD /DVD burning and disk labeling are done via a commercially available external robotics device.

RA600/CA1000/Digital Hardcopy receives imaging studies and data over LAN, WAN, intranet or internet from a PACS server or directly from a DICOM -compliant modality or archive utilizing both lossless and lossy compression. It is the user's responsibility to ensure quality, ambient light conditions and image compression ratios are consistent with the clinical application. The RA600/CA1000/Digital Hardcopy workstation may interface with various information systems within the healthcare environment, such as the HIS, RIS, and CVIS. It may be sold as software only, or as a turnkey system.

Lossy compressed mammographic images and digitized film screen images must not be reviewed for primary image interpretations. Mammographic images may only be interpreted using an FDA approved monitor that offers at least 5 Mpixel resolution and meets other technical specifications reviewed and accepted by FDA.

Technology: The Centricity Radiology RA600 / Centricity Cardiology CA1000 / Centricity Digital Hardcopy employs the same functional scientific technology as its predicate devices.

Test Summary: The Centricity Radiology RA600 / Centricity Cardiology CA1000 / Centricity Digital Hardcopy complies with the voluntary standards as detailed in Section 12 Specific Standards and Guidance. The following quality assurance measures were applied to the development:

- Risk Analysis
- Requirements Reviews
- Design Reviews
- Testing on unit level (Module verification)
- Integration testing (System verification)
- Final acceptance testing (Validation)
- Performance testing
- Safety testing

Conclusion: GE considers features of the Centricity Radiology RA600 / Centricity Cardiology CA1000 / Centricity Digital Hardcopy are equivalent to those of the predicate devices.

Third Party Review Quality Assessment

Section 1 – Submission Information

510(k) No.: 1K 0C 3628 Third Party Organization: Underwriters
 Third Party's Primary Reviewer(s): Silvia Amkova
 ODE/OIVD Division: DRARD Branch/Team: RDB

Section 2 – 510(k) Decision

Third party recommendation: SE X NSE _____ Other (specify): _____
 ODE/OIVD final decision: SE X NSE _____ Other (specify): _____

Section 3 – Assessment of Third Party Review

Review Element	Rating (check one)		
	Adequate	Minor Issue(s)	Major Issue(s)
a. Determination of device eligibility for third party review	✓		
b. Extent of pre-submission consultation with ODE/OIVD division	✓		
c. Organization and format of review documentation	✓		
d. Determination of 510(k) administrative completeness (screening review)	✓		
e. Summary of device characteristics, intended use, and performance (including accessories, if applicable) and reason for 510(k) submission	✓		
f. Comparison to legally marketed devices—identification and analysis of key similarities and differences	✓		
g. Rationale for conclusions and recommendation	✓		
h. Use of guidance documents and standards	✓		
i. Resolution of 510(k) deficiencies and FDA requests for additional information	✓		
j. Scope of reviewer expertise and use of consulting reviewers	✓		
k. Other (specify):			

Comments (explanation of ratings/issues): _____

Section 4 – ODE/OIVD Assessor Information

Assessed by: John A. Jarama Date: 12-13-06 Tel. No.: 240-271-3664

Routing: Division _____
 Completed assessment (this page only) to inside front cover of 510(k).
 DMC: Forward this page only to Eric Reichen, POS/ODE, Rm. 1201, Corp. Bldg. (HFE/302)



DEPARTMENT OF HEALTH & HUMAN SERVICES

DEC 26 2006

Food and Drug Administration
9200 Corporate Blvd.
Rockville MD 20850

GE Healthcare Integrated IT Solution
% Ms. Silvia Ankova
Senior Project Engineer
Underwriters Laboratories, Inc.
333 Pfingsten Rd.
NORTHBROOK IL 60062

Re: K063628

Trade/Device Name: Centricity Radiology RA600 / Centricity Cardiology CA1000 / Centricity Digital
Hardcopy
Regulation Number: 21 CFR 892.2050
Regulation Name: Picture archiving and communications system
Regulatory Class: II
Product Code: LLZ
Dated: December 5, 2006
Received: December 6, 2006

Dear Ms. Ankova:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.



Protecting and Promoting Public Health

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

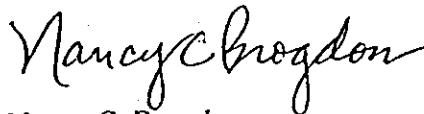
This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

21 CFR 876.xxx	(Gastroenterology/Renal/Urology	240-276-0115
21 CFR 884.xxx	(Obstetrics/Gynecology)	240-276-0115
21 CFR 894.xxx	(Radiology)	240-276-0120
Other		240-276-0100

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Nancy C. Brogdon
Director, Division of Reproductive,
Abdominal, and Radiological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

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510(k) Number (if known): K063628; 510(k) filed on October 16, 2006

Device Name: Centricity Radiology RA600 / Centricity Cardiology CA1000 / Centricity Digital Hardcopy

Indications for Use:

RA600/CA1000/Digital Hardcopy is intended for viewing and diagnostic interpretation of images acquired from CT, MR, CR, DR, US, XA and other DICOM-compliant medical imaging systems when installed on suitable commercial-standard PC hardware. RA600 / CA1000 is intended for use as a primary diagnostic and analysis workstation in Radiology/ Cardiology or other departments. It is also intended for use as a clinical review workstation throughout the healthcare facility and may be part of a larger PACS configuration.

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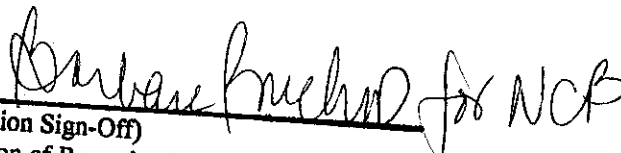
Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use X
(Per 21 CFR 801.109)

OR

Over-The-Counter Use _____

(Optional Format 1-2-96)


(Division Sign-Off)
Division of Reproductive, Abdominal,
and Radiological Devices
510(k) Number K063628